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put and the power output.

Fundamentals of Electric Circuits

Power within an electrical circuit is only present when BOTH voltage and current are present. For example, in an open-circuit condition, voltage is present but there is no current flow $I = 0$ (zero), therefore $V \cdot 0$ is 0 so the power dissipated within the circuit must also be 0. Likewise, if we have a short-circuit condition, current flow is present but there is no voltage $V = 0$, therefore $0 \cdot I = 0$...

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 2.1 Resistor 2.2 Capacitors

Fundamentals of Electronic Circuit Design

The next and the last stage before load, in a power supply system is the Regulator part. Let us now try to understand what a regulator is and what it does. The part of electronics that deal with the control and conversion of electric power can be termed as Power Electronics. A regulator is an important device when it comes to power electronics ...

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